

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1-8. (Canceled)

9. (Twice Amended) A method of processing data in a receiver apparatus used in a wireless communication system, the receiver apparatus comprising a medium access control (MAC) layer and a radio link control (RLC) layer for processing data units, the method comprising:

communicating a data unit and a cyclic redundancy code (CRC) check result associated with the data unit from the MAC layer to the RLC layer;

determining in the RLC layer that the CRC check result indicates the data unit has an error; and

processing the data unit in accordance with either a first manner or a second manner, the selection of either the first manner or the second manner based upon at least an operation mode, wherein the second manner comprises: ~~checking a parameter indicating whether a delivery of the data unit having the error has been configured and either processing the data unit if the parameter configured or discarding the data unit if the parameter configured~~

determining whether a predetermined procedure for processing the erroneous data unit at the RLC layer is configured,

if a predetermined procedure for processing the erroneous data unit at the RLC layer is configured, then further determining the configuration of a preset value associated with the predetermined procedure and processing the data unit in accordance with the preset value,

if a predetermined procedure for processing the erroneous data unit at the RLC layer is not configured, then discarding the data unit at the RLC layer.

10. (Amended) The method of claim 9, wherein the data unit is processed in accordance with the first manner if the operation mode is one of unacknowledged mode (UM) ~~and or~~ acknowledged mode (AM).

11. (Original) The method of claim 9, wherein the data unit is processed in the second manner if the operation mode is transparent mode (TM).

12. (Original) The method of claim 9, wherein the first manner comprises discarding the data unit in the RLC layer.

13-19. (Cancelled)

20. (Twice Amended) A receiver apparatus for processing data in a wireless communication system, the receiver apparatus comprising:

a medium access control (MAC) layer that transfers a data unit and a cyclic redundancy code (CRC) check result associated with the data unit; and

a radio link control (RLC) layer in communication with the MAC layer, the RLC layer ~~receiving~~ adapted to receive from the MAC layer the data unit and the CRC check result that indicates whether the data unit has an error, ~~wherein the RLC layer examines and adapted to examine~~ the CRC check result sent from the MAC layer and ~~processes~~ process the data unit in accordance with either a first manner or a second manner, the selection of either the first manner or the second manner based upon at least an operation mode, wherein the second manner comprises:

determining whether a predetermined procedure for processing the data unit at the RLC layer is configured, where the CRC check result indicates that the data unit has an error,

if a predetermined procedure for processing an erroneous data unit at the RLC layer is configured, then further determining the configuration of a preset value associated with the predetermined procedure and processing an erroneous data unit in accordance with the preset value, and

if a predetermined procedure for processing an erroneous data unit at the RLC layer is not configured, then discarding the erroneous data unit at the RLC layer.

21 -28. (Cancelled)

29. (Twice Amended) A method of processing data in a receiver apparatus used in a wireless communication system, the receiver apparatus comprising a physical layer and a medium access control (MAC) layer for processing data units, the method comprising:

communicating a data unit and a cyclic redundancy code (CRC) check result associated with the data unit from the physical layer to the MAC layer;

determining in the MAC layer that the CRC check result indicates the data unit has an error;

examining the data unit for presence of header information associated with a MAC header;

discarding the data unit if the header information is present; and

~~checking a parameter indicating whether a delivery of the data unit having the error has been configured if the header information is not present, and either processing the data unit when the parameter configured or discarding the data unit when the parameter configured if the header is not present, then determining whether a predetermined procedure for processing the erroneous data unit at the RLC layer is configured,~~

if a predetermined procedure for processing the erroneous data unit at the RLC layer is configured, then further determining the configuration of a preset value associated with the predetermined procedure and processing the data unit in accordance with the preset value,

if a predetermined procedure for processing the erroneous data unit at the RLC layer is not configured, then discarding the data unit at the RLC layer.

30-44. (Cancelled)

45. (New) In a wireless communication system that includes a medium access control (MAC) layer and a radio link control (RLC) layer, a method comprising:

communicating a data unit and a cyclic redundancy code (CRC) check result corresponding to the data unit from the MAC layer to the RLC layer;

at the RLC layer, determining whether there is any error associated with the data unit based on the CRC check result;

if it is determined that the data unit contains an error, then determining whether a predetermined procedure for processing the erroneous data unit at the RLC layer is configured, and

if a predetermined procedure for processing the erroneous data unit at the RLC layer is configured, then further determining the configuration of a preset value associated with the predetermined procedure and processing the data unit in accordance with the preset value; and

if a predetermined procedure for processing the erroneous data unit at the RLC layer is not configured, then discarding the data unit at the RLC layer.

46. (New) The method of claim 45 further comprising:

transporting the data unit from the RLC layer to a next higher layer for further processing if, at the RLC layer, it is determined that there is no error associated with the data unit.

47. (New) The method of claim 46, wherein the next higher layer is a Radio Resource Control (RRC) layer.

48. (New) The method of claim 45, wherein the data unit is an RLC protocol data unit.

49. (New) In a wireless communication system that includes a medium access control (MAC) layer and a radio link control (RLC) layer, and wherein the RLC layer is capable of operating in one of several modes, a method comprising:

communicating a data unit and a cyclic redundancy code (CRC) check result corresponding to the data unit from the MAC layer to the RLC layer;

at the RLC layer, determining whether there is an error associated with the data unit based on the CRC check result; and

if it is determined that there is an error associated with the data unit and the RLC layer is operating in accordance with a first one of the modes, then determining whether a predetermined procedure for processing the erroneous data unit at the RLC layer is configured; and

if the predetermined procedure for processing the erroneous data unit at the RLC layer is configured, then further determining a preset value associated with the predetermined procedure, and

if the predetermined procedure for processing the erroneous data unit at the RLC layer is not configured, then discarding the data unit at the RLC layer, regardless of the RLC mode.

50. (New) The method of claim 49, wherein the RLC layer is operating in transparent mode, said method further comprising:

processing the data unit at the RLC layer in accordance with the preset value if there is an error associated with the data unit and if a predetermined procedure for processing erroneous data units at the RLC layer is configured.

51. (New) The method of claim 50 further comprising:

submitting only RLC data units, received at the RLC layer without error, to a next higher layer if the preset value associated with the predetermined procedure has a first configuration value.

52. (New) The method of claim 51, wherein the first configuration value is “NO.”

53. (New) The method of claim 50 further comprising:

submitting all RLC data units to a next higher layer and providing an error indication if a corresponding data unit is received at the RLC in error and if the preset value associated with the predetermined procedure has a second configuration value.

54. (New) The method of claim 53, wherein the second configuration value is “YES.”

55. (New) The method of claim 50 further comprising:

submitting all RLC data units to a next higher layer if the preset value associated with the predetermined procedure has a third configuration value.

56. (New) The method of claim 55, wherein the third configuration value is “NO DETECT.”

57. (New) The method of claim 49, wherein the RLC is operating in unacknowledged mode or acknowledged mode, said method further comprising:

discarding the data unit at the RLC layer if, at the RLC layer, it is determined that there is an error associated with the data unit, regardless whether a predetermined procedure for processing the data unit at the RLC layer is configured.